



## **INSTALLATION & OPERATING INSTRUCTIONS**

### **RV KIT # 3003SS**

Mist-er-Comfort's Kits are designed to simply attach to any RV awning providing hours of comfort during those HOT DAYS!

The entire System is a low pressure system and has been specifically designed to meet the stringent and safety requirements of the outdoors. The System is based on the theory of evaporative cooling; creating an ultra fine mist that instantly flash evaporates. Customers have reported on a hot summer day it has dropped the temperature by up to 25 degrees.

**The following instructions are designed to help you easily install the Kit # 3003SS**

#### **Kit # 3003 includes:**

- 125 psi Booster Pump with spark arrestor
- Special T Adapter to connect into Fresh Water line
- Special Quick Disconnect Valve to connect to RV
- In-line filter
- Automatic Drain Valve
- Connectors/Reducers
- 35 feet of pressure misting tubing
- 4 Removable Misting heads and Stems
- 6 UV rated installation grommets
- 12 special installation Velcro Straps
- 4 Misting Head connectors

#### **Tools Required:**

- Phillips Screw driver
- Drill with 1/2" Drill bit
- Sharp knife or cutter
- Wire and Switch

#### **There are three main layout considerations:**

1. Location of FRESH water line.
2. **Automatic Drain Valve (ADV) should never be installed below the level of the fresh water tank.**
3. Available Auxiliary Switch to turn on/off Misting Pump.
4. Awning installation

#### **Layout Considerations:**

1. Carefully unpack box and separate packages/items.
2. Locate existing water pump/water line; a 1/2" Quick Connect Tee is provided to install between the fresh water tank and the existing pump. The Tee must be located on the NON-PRESSURE side of the pump. In the package you'll find the Tee is easily connected to a PEX line or you'll find two 1/2" stems w/ barb and clamps to easily connect to 1/2" flexible boat tubing. There are some RV manufactures that use 15mm plumbing, if you determine you have 15mm, please call Mist-er-Comfort, we can supply you with a 15mm Tee. If you cannot determine the tube size or if you cannot locate the tank and tubing, please consult with manufacture or a professional. Before cutting the line, make sure pump is off and pressure has been released. Cut plumbing and insert Tee.. (See photo)
3. Find a good location for the booster pump, it should be near the tank but can be located up to 4 feet above tank. Install pump using # 10 stainless steel screws, insert 3/8" MNPT coupler between the pump and filter **IMPORTANT** look at arrow on filter it must point towards the pump. Install the 3/8" MNPT to 1/4" QC coupler to the other side of the pump; do not over tighten. Insert 1/4" tubing between filter and Tee. (See Photo)
4. Install ADV anywhere on the pressure side of the newly installed misting pump but it has to be a few feet below any misting heads, to allow gravity to release water from misting tube. Note the ADV will drain each time the misting system is turned off. It's important the location allows the water to release into this area.

**The ADV should never be installed below the level of the water tank.**

**You are now ready to install the Misting heads and tubing. The best time to install tubing is after it has had time to sit out in the sun to expand. The instructions cover's the installation of the misting heads onto a awning with canvas.**

### Awning Canvas installation

1. Determine the best locations for misting heads, it is suggested not to space them any closer than 2 feet apart and not directly on top of guests.
2. Suggest starting at the last Misting Head first then go backwards; keeping in mind that tubing will need to attach between each misting head.
3. Locate the elbow union as the last misting head, insert misting stem and head into union. Slide one of the clips onto the tubing, insert misting tube into the union. Measure the distance between misting heads and cut the line to insert into second misting head. (make sure you hear or feel a click on each pressure union).
4. Continue installing Misting Heads by using T Unions.
5. Using a straight edge knife and NOT a scissor, cut the misting tube to go between each mister. Insert tubing into 1/4" pressure fitting, make sure it goes in all the way to prevent leakage, (you'll feel it click into place)
6. Simply clip on the tubing as you place each misting head. When you come to the support pole, use the Velcro straps. The straps have a slit in them so I suggest to run the tubing through the slot so as you won't lose the straps.
7. Enclosed in your kit is a through-wall quick coupler. Drill an 1/2" hole in the side wall of the RV and insert coupler; attach tubing to each end using a flare nut.
8. **When removing Misting Head Tubing...it is helpful to use 5/16" open end wrench to press against the holding ring of quick connect union...at the same time...slightly push tube in towards the union and then carefully pull. The tube/head should easily be removed.**
9. **If you need to remove and reinstall Misting head; carefully unscrew the head.**
10. **When re-installing Misting Head: carefully align the threads and ONLY HAND TIGHTEN (do not use tool).**

**USING EXCESSIVE FORCE TO TIGHTEN MISTING HEAD WILL CAUSE DAMAGE TO MISTER AND WILL VOID WARRANTY.**

### Wiring Booster Pump

#### **Important: USE MARINE GRADE APPROVED WIRE**

Connect appropriate RV wire between newly installed Booster Pump and auxiliary power switch to turn on/off pump. The 12 volt DC pump has a maximum draw of 2.3 amps at start up.

Now you're ready to Get COOL: First you may want to run the system without the misting heads to clean the line; once you see water from all head locations install heads. Turn on the new misting system switch. It may take a few minutes to fill the system with water. Look for leaks if you see any then turn off the switch and reseal the connections.

### Maintenance

Once a season check the Misting Heads for calcium build-up and clean or replace, go to: [www.mist-er-comfort.com](http://www.mist-er-comfort.com) for recommendations.

Questions please refer to website [www.mist-er-comfort.com](http://www.mist-er-comfort.com) or call (888) MIST 370

### **PRODUCT LIMITED WARRANTY**

Mist-er-Comfort warrants that Mist-er-Comfort's products shall be free of defect in materials and workmanship under normal use within the operating specifications for a period of **one (1) year** from the date of purchase provided that:

- A. The above warranty shall not apply to any such product part thereof which is damaged as a result of neglect, misuse, alteration, accident, normal wear and tear, misapplication, fire, act of God, freezing, hot water, chemical, flammable or salt water;
- B. Purchaser's exclusive remedies under the above warranty shall be limited to the repair or replacement of the non-conforming product or part(s) thereof, as determined by Mist-er-Comfort.
- C. Any non-conforming product must be returned to Mist-er-Comfort within one (1) year from its purchase.
- D. The warranty contained above does not extend to any goods not manufactured by Mist-er-Comfort even though supplied by Mist-er-Comfort. Goods not manufactured by Mist-er-Comfort carry only the warranty (if any) of their makers and the Purchaser is entitled to the benefit thereof only so far as Mist-er-Comfort has the power to transfer it;
- E. Mist-er-Comfort shall not be liable for any special, indirect, or consequential damages;
- F. **IMPORTANT NOTE:** Mister Nozzles have orifices as fine as human hair, hence bad water that has sediment and or hard water would drastically affect its performance of the nozzles by getting its orifices clogged.

**BE SURE TO DRAIN TUBING AFTER EACH USE... NOT DOING SO WILL VOID THE WARRANTY.**

There are no two water sources alike, hence it is the sole responsibility of the customer to protect his or her nozzles from getting clogged by installing the proper sediment or polyphosphate filter upstream from the misters, so they would be protected against sediment and lime buildup (if need be). When several nozzles get clogged together that is an obvious indication the water source is bad. If nozzles are subjected to bad water and they get clogged because of that, the misting system can not be returned. The warranty does not cover clogging due to sediments or lime build-up.

- G. All our orders are shipped economy class via UPS or USPS. There is an extra charge for Air and Express deliveries.
- H. Product design can change at anytime without notice.
- I. Return shipping and handling cost is to the expense of the customer/buyer.

**Return defective items to:**

**Mist-er-Comfort Inc.  
5703 Red Bug Lake Road #103  
Winter Springs, FL 32708  
(888) 647-8370**